

Amendments to the Specification:

Please replace paragraphs [0009] and [0020] of the specification with the following replacement paragraphs with changes as indicated.

[0009] Fig. 1 is an elevational view of a reactor vessel employing one embodiment of the invention.

~~Fig. 1A is a perspective view of a reactor vessel employing another embodiment of the invention.~~

Fig. 2 is an elevational view, partially in section, of a main body and part of a turret.

Fig. 3 is a top view of Fig. 2.

Fig. 4 is an elevational view of two stabilizing arms and part of a main body.

Fig. 5 is a schematic view of an articulatable frame assembly in a vertical position.

Fig. 6 is a schematic view of an articulatable frame assembly approximately forty-five degrees from the vertical position.

Fig. 7 is an elevational view of a robotic device shown in a vertical position and representing movement to a position approximately forty-five degrees from the vertical position.

Fig. 8 is a schematic view of a control panel.

Fig. 9 is a schematic view of an auger device.

Fig. 10 is a perspective view of an end tool fitting.

Fig. 11 is a perspective view of another end tool fitting.

Fig. 12 is a perspective view of a reactor vessel employing another embodiment of the invention.

[0020] Referring to Figs. 7, 9 10 and 11, the end tool fitting 76 on the cleaning arm(s) 70 may merely be a vacuum nozzle endpiece which may be threaded at end 76a to the suction line 71, or it may have the following optional attachments: a scraper plate with teeth (or a hydraulic scraper piece) 77a mounted on the end of the end tool fitting 76 to aid in moving material (e.g. agglomerated material 11a) for easier removal; a line and fitting 77b may be connected through the end tool fitting 76 for introducing a nitrogen/air induction nozzle to enhance vacuum capability by providing a carrier medium for vacuuming solids; lighting (which in the illustrated embodiment actually comprises part of the camera 82b but may, for example, be separate or external low voltage lighting); a sprayer nozzle 77e utilizing, for example, a T-fitting attachment 77d, can be used for the chemical passivation of reactor internals to prevent polythionic acid cracking; a pick and/or rake (similar to scraper plate with teeth 77a) to pick, loosen and/or break apart hard or agglomerated material; a tray and tray bolt removal feature/assembly such as that used commercially in undersea operations; and/or an auger device 77c (Fig. 9) to aid in the loosening of agglomerated or fused catalyst and which may, for example, be pneumatically powered.